

Rubicon Water

Irrigation Modernization Solutions



Rubicon works with Irrigation Districts to modernize gravity canal and pipe networks.

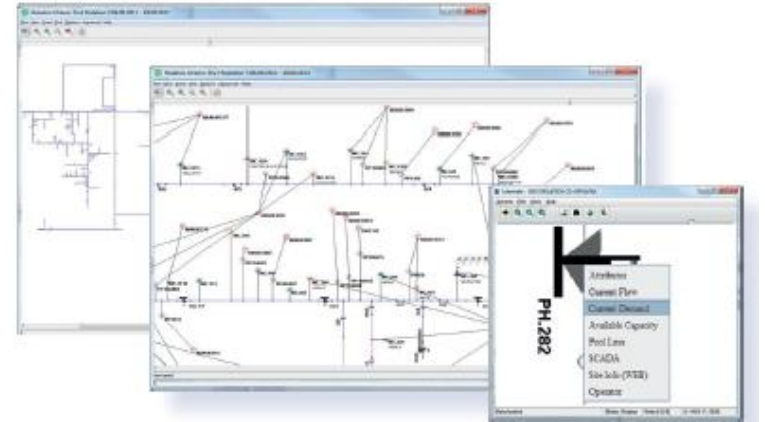
Modernized gravity networks precisely match supply to demand throughout the entire distribution network and eliminate operational spills.

The resultant zero-energy on-demand supply system allows farmers to apply water at precise times and volumes to meet crop requirements.

This saves water for use later in the growing season or for use in future dry years.

- ▶ **More water for farmers**
- ▶ **Increased agricultural production**
- ▶ **More efficient on-farm water use**
- ▶ **More responsive water ordering**
- ▶ **Greater certainty for irrigators**

Our Solutions Enable Precise Integrated Water Management From Dam to Plant, Powered by Gravity



Rubicon Water Provides an Integrated Suite of Gravity Irrigation Management Solutions



Control Gates

- Solar-powered control gates: FlumeGate™ and SlipGate®
- Advanced gate technology: flow measurement, positioning features and precision control, advanced water level sensors



Meters

- Sonaray® Pipe Meters, SlipMeter™
- Accurate measurement, real time data communication
- Precision control



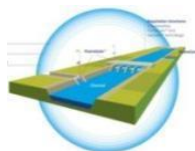
SCADA (remote control)

- SCADA software: SCADAConnect®
- Advanced telemetry and wireless networks



Software

- Demand Management: Rubicon DMS
- Irrigation scheduling
- Control software: NeuroFlo®



Total Channel Control®

- Integrates Rubicon products together to manage an entire irrigation supply system

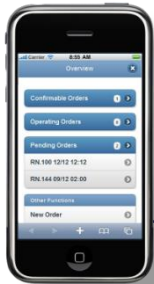


Automated Gravity Pipeline

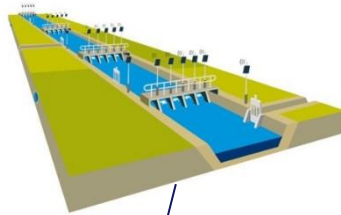
- Constant high flow rate piped deliveries with zero energy

Rubicon Operations Management Software Products

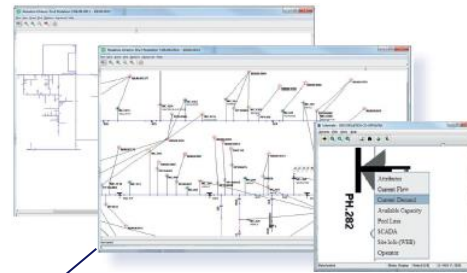
Rights & Compliance



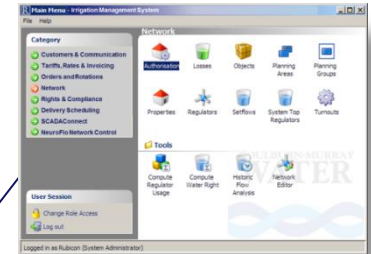
NeuroFlo



Network Visualisation



Water Resource Management



AUTOMATIC
DELIVERY



SCADA
CONNECT



RIGHTS &
COMPLIANCE



NEUROFLO



NETWORK
VISUALIZATION



TARIFFS, RATES
& INVOICING



ORDERS, ROTATIONS
& SCHEDULING



HYDROLOGICAL
DATA



CUSTOMER
CONNECT

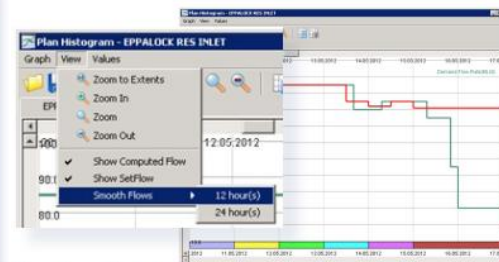
SCADAConnect



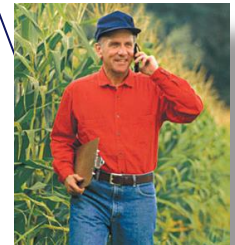
Tariffs and Invoicing



Orders, Rotations & Scheduling



Customer Connect



Rubicon Control Gate and Meter Products

Combined flow measurement and control gates that incorporate accurate flow measurement, precise motor control, power supply and radio telecommunications in a single device.



FLUMEGATE



SLIPGATE



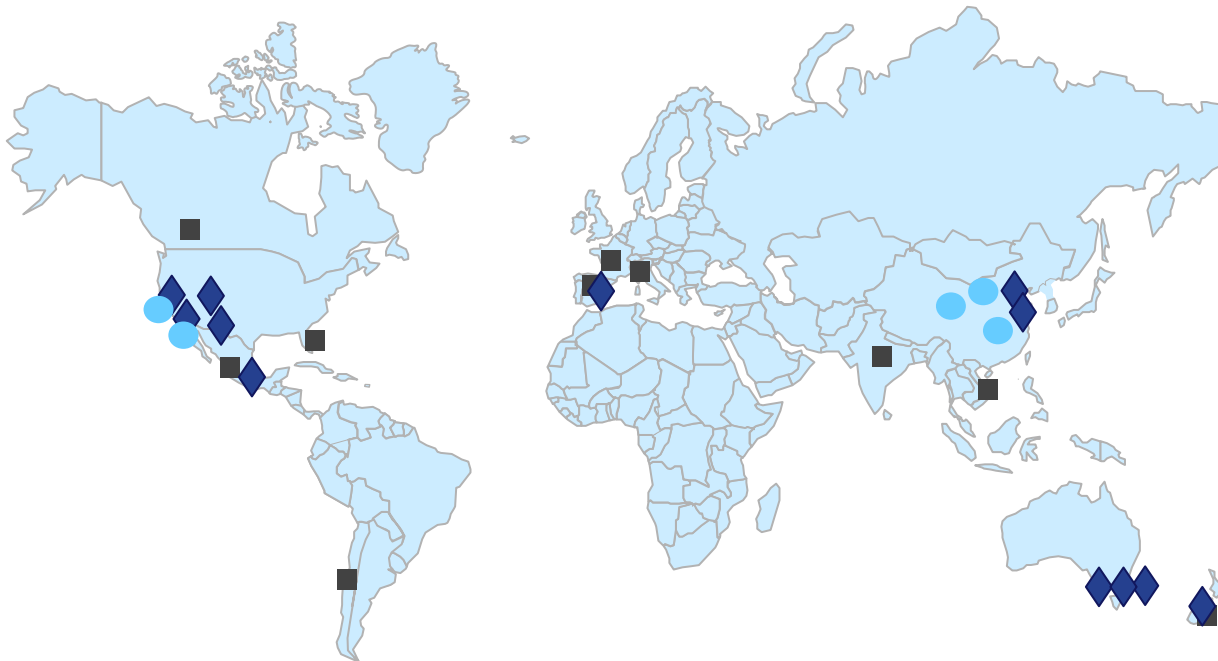
SLIPMETER



BLADEMETER



Rubicon's Global Solution Portfolio



- ▶ Formed in 1995, an industry leader in gate and control technology for 22+ years
- ▶ Global workforce of 150+ with offices in United States, Spain, China, Chile, Australia, New Zealand, and Chile
- ▶ Provide turn-key gravity canal modernization solutions that achieve 90+% delivery efficiencies

International Canal Automation systems

- Oakdale, California, USA
- RD108, California, USA
- Ningxia, China
- Shanxi, China
- Gansu, China

Gate installations

- | | |
|---------------|-----------|
| ■ Spain | ■ Italy |
| ■ Chile | ■ Canada |
| ■ India | ■ Mexico |
| ■ France | ■ Vietnam |
| ■ New Zealand | |

More than 25,000 control gates and meters deployed and improving water availability worldwide

Colorado



France



China



Canada



Italy



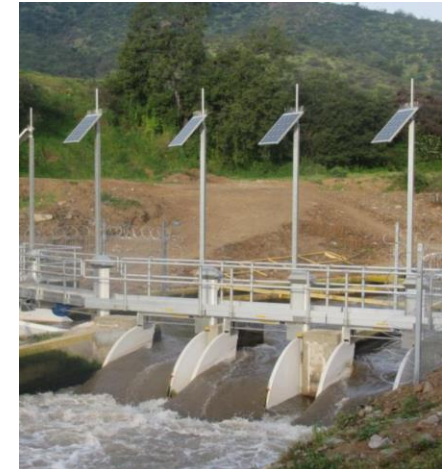
Spain



India



Chile



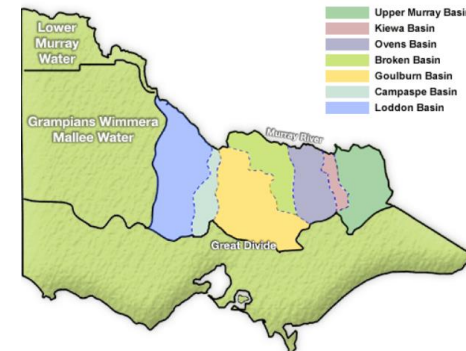
Rubicon's largest project is the \$2 Billion modernization of Victoria's Foodbowl

Phase 1 (2008-2012)

- Automated 1,875 miles of primary canals
- Deployed nearly 12,000 automated gates
- Installed nearly 6,300 meters in service points
- Deployed the largest agricultural SCADA system in the world (7,445 PLCs over thousands of miles)
- Installed a private radio comms network
- Installed sophisticated management software to manage both demand and supply

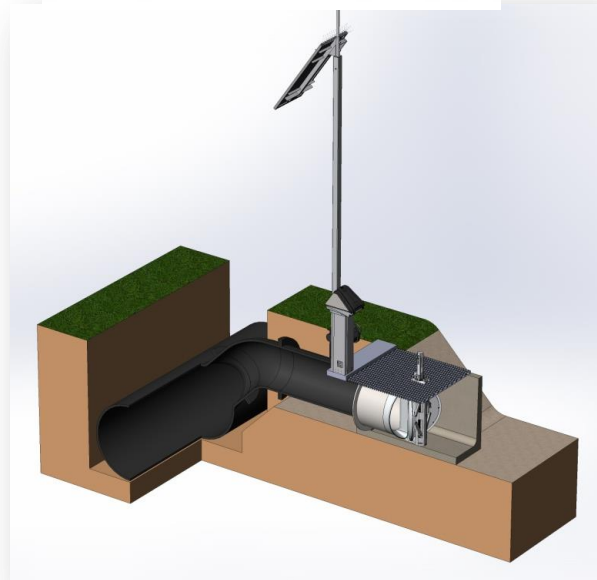


This project is creating savings of 182,250 acre - feet of water every year



Foodbowl Modernisation Project – Automated Gravity Pipeline To Multiple Users

- ▶ The need for low head loss throughout pipe network – large diameters
- ▶ Irrigation farmers do NOT want to be exposed to rising energy costs from pumping
- ▶ The land is very flat
- ▶ The interaction between valve operations at low pressure head
- ▶ Rubicon's low energy pipeline solution is half the cost of traditional pipeline solutions



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Thank you